



Atty. Dkt. No.: P64765US1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: Peet KASK

Serial No.: 09/779,461

Group Art Unit: 2878

Filed: February 9, 2001

Examiner: LEE, Shun K.

For: FLUORESCENCE INTENSITY MULTIPLE DISTRIBUTIONS ANALYSIS:  
CONCURRENT DETERMINATION OF DIFFUSION TIMES AND MOLECULAR  
BRIGHTNESS

AMENDMENT

Commissioner of Patents  
Washington, D.C. 20231

Sir:

Applicant submits the instant Amendment in response to the Office Action mailed May 8,  
2002.

IN THE CLAIMS

Cancel claims 1-17, without prejudice or disclaimer, and add the following claims:

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18. A method for characterizing samples having fluorescent particles, comprising the steps of:
- a) monitoring intensity fluctuations of fluorescence emitted by the particles in at least one measurement volume by detecting sequences of photon counts by at least one photon detector,
  - b) determining from the sequences of photon counts intermediate statistical data comprising at least two probability functions,  $\hat{P}_1(\mathbf{n}_1), \hat{P}_2(\mathbf{n}_2), \dots$ , of the number of photon counts,  $\mathbf{n}_1, \mathbf{n}_2, \dots$ , detected in different sets of counting time intervals,